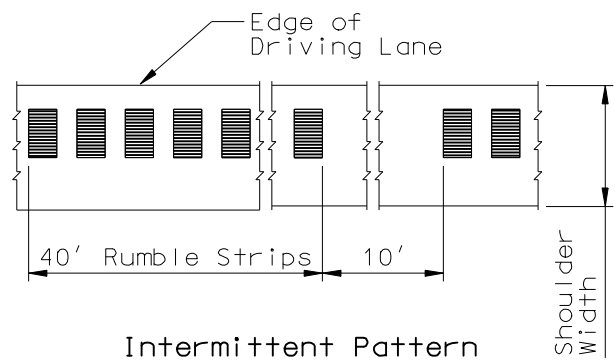
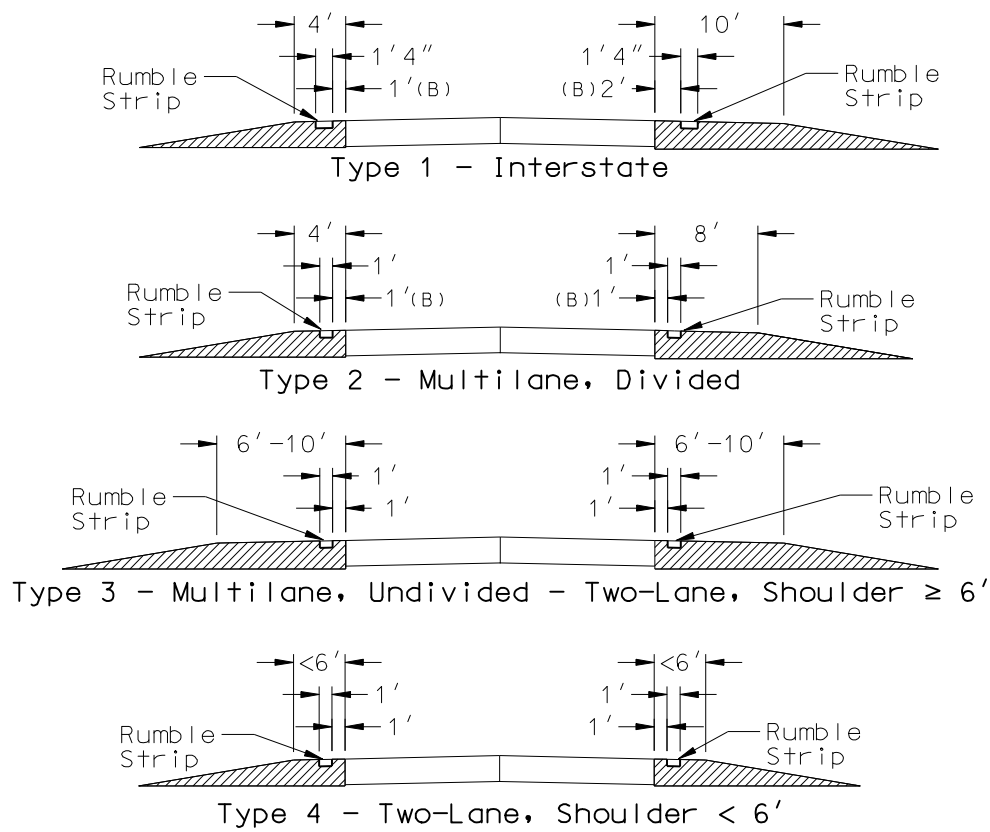
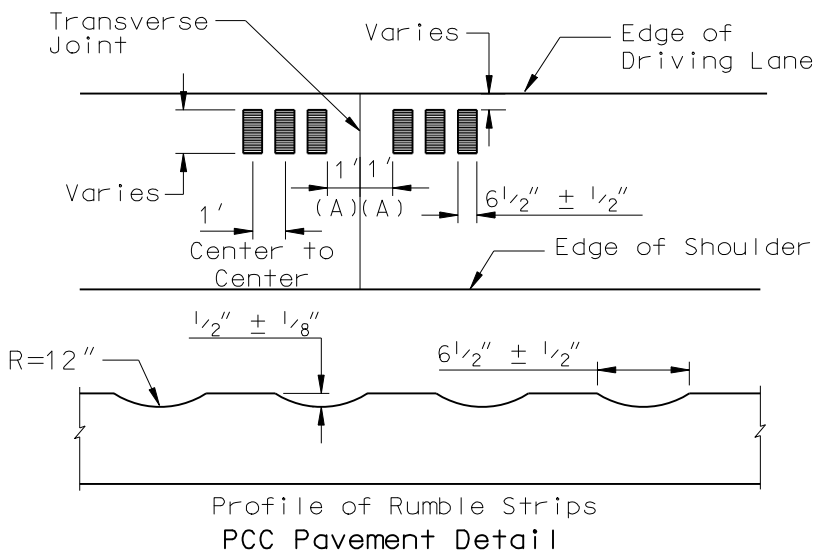
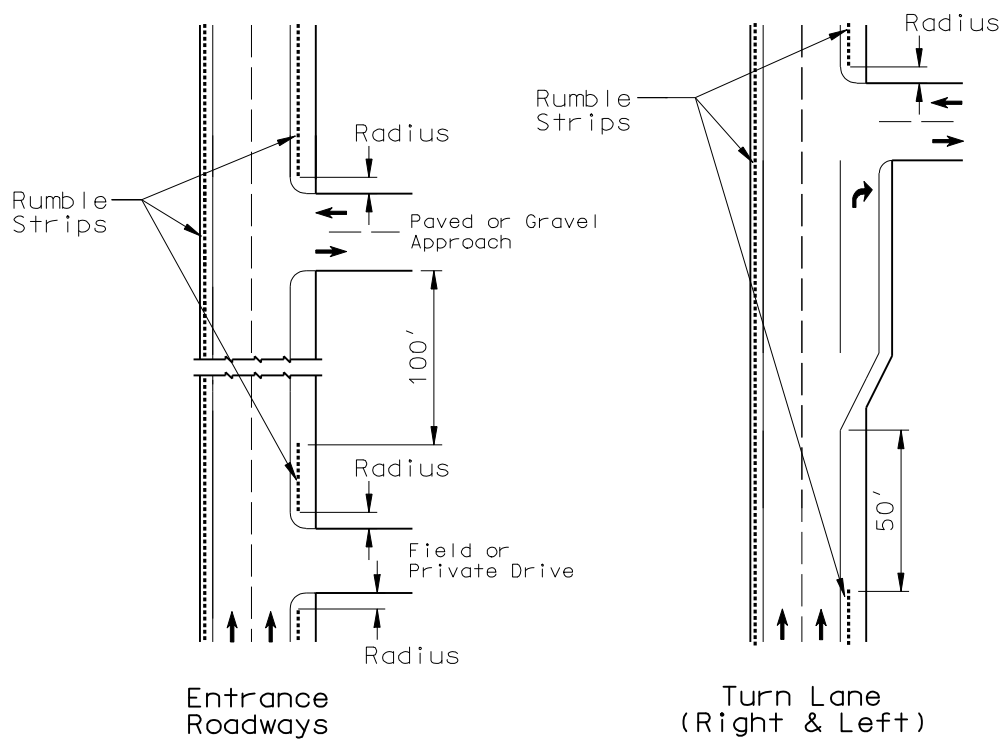


SHOULDER RUMBLE STRIPS

D-960-2



- (A) Discontinue rumble strip approximately 1'-0" on both sides of transverse joint.
- (B) Rumble Strip may be placed at the edge of the driving lane if the shoulder is less than 4'.



NOTES:

- 1) Rumble strips shall be milled into the bituminous and concrete paved shoulders. The milled materials shall be swept off the entire width of the paved shoulder.
- 2) Rumble strips shall be discontinued across the entire length of turn lanes, turn lane tapers, ramp tapers, graveled & paved intersections, private drives, and field drives, as shown above.
- 3) The rumble strips milled into new or existing bituminous pavements shall be fog sealed across the full width of the milling with an application of SS-1h or CSS-1h emulsified asphalt at a rate of about 0.10 Gal/SY. All costs for fog sealing shall be included in the cost bid for rumble strips.
- 4) Discontinue rumble strips through all urban areas, where there is curb and gutter, highway posted speed is 45 mph or less, across bridge decks and approach slabs, and adjacent to guardrail if the clear path between the rumble strip and the guardrail is less than 5 FT.

Types of Shoulder Rumble Strips		
Interstate	Right (Outside)	Type 1-16" Continuous
	Left (Inside/Median)	Type 1-16" Continuous
Multilane, Divided	Right (Outside)	Type 2-12" Intermittent
	Left (Inside/Median)	Type 2-12" Continuous
Multilane, Divided; Two-Lane; Paved Shoulder $\geq 6'$	Both (Rt & Lt)	Type 3-12" Intermittent
Two-lane; Paved Shoulder; $\geq 4'$ and $< 6'$	Both (Rt & Lt)	Type 4-12" Continuous

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
03-12-01	
REVISIONS	
DATE	CHANGE
03-21-02	General revisions
05-10-02	Revised note 3
10-18-02	Removed pay item
06-03-03	Rumble strip location
10-23-03	Added table
12-01-04	PE Stamp added

This document was originally issued and sealed by MARK S GAYDOS, Registration Number PE-4518, on 12/01/04 and the original document is stored at the North Dakota Department of Transportation